

**PRODUCTION OF ALPHA-OLEFIN OLIGOMER**

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**Abstract of JP9143213**

**PROBLEM TO BE SOLVED:** To produce the subject oligomer in high yield and selectivity at a low catalyst cost in an easily distillable and purifiable state by using a specific chromium-based catalyst containing a specific halogen-containing compound in a specific contacting manner.

**SOLUTION:** Oligomerization of an  $\alpha$ -olefin is carried out by using a chromium-based catalyst system consisting of a combination of at least (A) a chromium compound, (B) one or more kinds of nitrogen-containing compounds selected from amines, amides and imides, (C) an alkylaluminum compound and (D) a halogen-containing compound, supplying the components A to D to the reaction system in such a manner as to present the components A to D and the  $\alpha$ -olefin in the reaction solvent at the same time and preventing the contact of the component A with the component C before starting the oligomerization reaction and bringing the  $\alpha$ -olefin into contact with the supplied components A to D. The component D is e.g. a compound of the formula [R1 and R2 are each a (substituted)1-30C alkyl having at least two halogen atoms in total as substituents on R1 and R2 ; Y is O or S].

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